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☐ 1: *Electrophoresis* 1992 Dec;13(12):992-1001Related Articles, Books, Protein,
Nucleotide, LinkOutPubMed
Services**Human liver protein map: a reference database established by
microsequencing and gel comparison.****Hochstrasser DF, Frutiger S, Paquet N, Bairoch A, Ravier F, Pasquali C,
Sanchez JC, Tissot JD, Bjellqvist B, Vargas R, et al**

Medicine Department, Geneva University, Switzerland.

Related
Resources

This publication establishes a reference human liver protein map obtained with immobilized pH gradients. By microsequencing, 57 spots or 42 polypeptide chains were identified. By protein map comparison and matching (liver, red blood cell and plasma sample maps), 8 additional proteins were identified. The new polypeptides and previously known proteins are listed in a table and/or labeled on the protein map, thus providing a human liver two-dimensional gel database. This reference map can be used to identify protein spots on other samples such as rectal cancer biopsies.

MeSH Terms:

- Amino Acid Sequence
- Ampholyte Mixtures
- Blood Proteins/analysis
- Comparative Study
- Databases, Factual*
- Electrophoresis, Gel, Two-Dimensional*
- Human
- Hydrogen-Ion Concentration
- Liver/chemistry*
- Molecular Sequence Data
- Peptide Mapping/methods*
- Proteins/analysis*
- Reference Standards
- Support, Non-U.S. Gov't

Substances:

- Proteins
- Blood Proteins

◦ Ampholyte Mixtures

PMID: 1286669, UI: 93162045

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BLAST PubMed Nucleotide Protein Genome Structure Taxonomy Help

Query: gi|6782048 unnamed protein product [Homo sapiens]

Lineage: Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo

COG0678 assigned by Cognitor (2 best hits)

Best hits

Common Tree

Taxonomy Report

3D structures

CDD-Search

GI list

51 BLAST hits to 30 unique species Sort by taxonomy proximity

1 Archaea 12 Bacteria 13 Metazoa 13 Fungi 12 Plants 0 Viruses 0 Other Eukaryotae

Keep only

Cut-Off

100

Select

Reset

162 aa

| | | | SCORE | P | ACCESSION | GI | PROTEIN DESCRIPTION |
|-----|----|----------|----------|----|--|----------|--|
| | | | 830 | 26 | CAB62210 | 6523289 | human thiol peroxidase homologous p |
| 830 | 26 | AAF03750 | 6103724 | | antioxidant enzyme B166 [Homo sapiens] | | |
| | | | 822 | 23 | AAG13453 | 10305338 | peroxiredoxin 5 [Cercopithecus aeth |
| | | | 820 | 26 | AAF04856 | 6166493 | thioredoxin peroxidase PMP20 [Homo |
| 820 | 26 | P30044 | 3915613 | | PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2 | | |
| 818 | 23 | AAG13451 | 10305334 | | peroxiredoxin 5 [Papio hamadryas] | | |
| | | | 767 | 21 | AAF04855 | 6166491 | thioredoxin peroxidase PMP20 [Mus m |
| 767 | 21 | AAF03751 | 6103726 | | antioxidant enzyme B166 [Rattus norvegicus] | | |
| 767 | 21 | P99029 | 3913065 | | PUTATIVE PEROXISOMAL ANTIOXIDANT ENZYME (LIVER TISSUE 2 | | |
| | | | 761 | 21 | AAG13452 | 10305336 | peroxiredoxin 5 [Sus scrofa] |
| | | | 625 | 21 | AAF21016 | 6644338 | peroxiredoxin V [Mus musculus] |
| | | | 475 | 8 | AAF55497 | 7300338 | CG7217 gene product [Drosophila melanoga |
| 290 | 2 | AAF94508 | 9655843 | | antioxidant, putative [Vibrio cholerae] | | |
| 290 | 3 | AAD33602 | 4928472 | | type 2 peroxiredoxin [Brassica rapa subsp. pekinensis] | | |
| 282 | 3 | AAD28242 | 4704730 | | peroxiredoxin TPx1 [Arabidopsis thaliana] | | |
| 281 | 3 | AAG40130 | 11761654 | | peroxiredoxin [Oryza sativa] | | |
| | | | 281 | 3 | CAB86900 | 7529720 | peroxiredoxin-like protein |
| | | | 274 | 3 | BAA82377 | 5441879 | ESTs AU070372(S13446), AU075541(S035 |
| | | | 274 | 3 | AAF06057 | 6227021 | Identical to gb AF121356 peroxiredoxin |
| | | | 268 | 3 | AAD28243 | 4704732 | peroxiredoxin TPx2 [Arabidopsis th |
| | | | 257 | 21 | BAA95057 | 7670411 | Mus musculus peroxiredoxin V (PrxV) |
| 246 | 2 | BAA17776 | 1652858 | | membrane protein [Synechocystis sp.] | | |
| 242 | 2 | AAF41352 | 7226184 | | peroxiredoxin 2 family protein/glutaredoxin [Nei | | |
| | | | 242 | 3 | BAA88530 | 6630684 | ESTs AU070430(S15424), AU082086(E1 |
| | | | 237 | 2 | AAF95778 | 9657228 | peroxiredoxin family protein/glutaredoxi |
| | | | 234 | 3 | AAF66133 | 7658343 | unknown protein; 13384-11892 [Arabidopsis thalia |
| 231 | 4 | AAB95638 | 2769700 | | peroxisomal-like protein [Aspergillus fumigatus] | | |
| 211 | 2 | I64154 | 1074445 | | conserved hypothetical protein HI0572 - Haemophilus i | | |
| | | | 210 | 2 | AAG37299 | 11612206 | unknown [Sinorhizobium fredii] |
| 208 | 4 | CAA20911 | 3646447 | | peroxisomal membrane protein Pmp20p, Ahpc-TSA fa mily p | | |
| 208 | 4 | CAA05528 | 2598045 | | PMP20 [Schizosaccharomyces pombe] | | |
| 206 | 2 | CAA92419 | 1486441 | | unknown [Rhizobium sp.] | | |
| | | | 205 | 4 | AAD42074 | 5326864 | peroxisomal membrane protei |
| | | | 204 | 2 | S39907 | 7469151 | conserved hypothetical protein 10 - Rhodobact |
| | | | 202 | 4 | AAB41351 | 558080 | Lipomyces kononenkoae subsp. spencermartinsiae p |
| 202 | 4 | A32646 | 83903 | | peroxisomal membrane protein 20K A - yeast (Candida boic | | |
| 198 | 2 | CAA06680 | 3093392 | | ORF180 [Rhizobium etli] | | |
| 197 | 4 | B32646 | 83904 | | peroxisomal membrane protein 20K B - yeast (Candida boic | | |
| 196 | 3 | AAF06060 | 6227024 | | Contains similarity to gb AF121355 peroxiredoxin | | |
| | | | 196 | 4 | CAA09883 | 4138171 | allergen [Malassezia furfur] |
| 190 | 4 | BAA32436 | 3445492 | | MF2 [Malassezia furfur] | | |
| | | | 189 | 4 | JE0227 | 7514251 | allergen Mal f3 - Malassez |

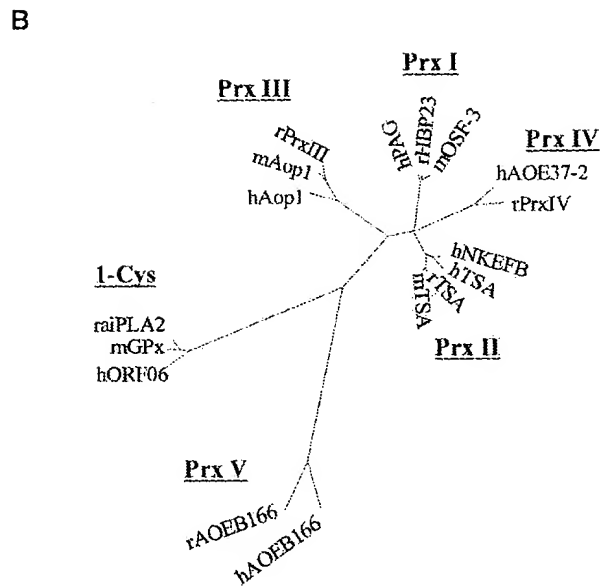
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.....•.....      188  4  BAA32435  3445490 MF1 [Malassezia furfur]
(               ,      177  3  AAB71961  2462742 Unknown protein [Arabidopsis thaliana]
.....      •.....      168  2  AAC34466  3462877 unknown [Rhizobium etli]
.....•.....      136  4  AAB67554  1256872 Ylr109wp [Saccharomyces cerevisiae]
.....•.....      118  4  AAG23865  10946517 peroxisomal membrane protein [Coccidioides immitis]
(               •.....      106  2  AAD52147  5814209 alkyl hydroperoxide reductase subunit alpha [Mycobacterium tuberculosis]
.....      •.....      103  3  CAA54066  471321 HvB15C [Hordeum vulgare]
.....      •.....      102  2  CAA69447  1707727 Methanobacterium orfK homolog [Sulfolobus solfataricus]
.....      •.....      100  2  CAB88842  7636005 hypothetical protein SCE6.38. [Streptomyces coelicolor]

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A

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|-----------|------------|------------|-----------|------------|
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| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | MDALPLAAT | TDRGFSRSL | LLGLLLEGL | PAGVGVWET |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| hPAG | ----- | ----- | ----- | ----- |
| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | CHPYARQVY | PUGASRVSVA | DHSGGSSAK | ISRSAPYDS |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| Consensus | ----- | ----- | ----- | ----- |
| hPAG | DLPLDYTKR | YVVFYFPLD | FFVCP-VEL | IAFSDIAEF |
| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | DLPLDYTKR | YVVFYFPLD | FFVCP-VEL | IAFSDIAEF |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| Consensus | ----- | ----- | ----- | ----- |
| hPAG | ASVDSHFCHL | AW--VSTIK | KGGLGPHRE | ELVSDPIKCI |
| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | ASVDSHFCHL | AW--VSTIK | KGGLGPHRE | ELVSDPIKCI |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| Consensus | ----- | ----- | ----- | ----- |
| hPAG | RG-----IS | YGLFLINDR | GILRLITWD | LAVRSVDET |
| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | RG-----IS | YGLFLINDR | GILRLITWD | LAVRSVDET |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| Consensus | ----- | ----- | ----- | ----- |
| hPAG | GRSEVCPAG | SEKQ-SDTIK | FNV--QSRK | YFSKQ---- |
| hNKEFB | ----- | ----- | ----- | ----- |
| hAOE37-2 | GRSEVCPAG | SEKQ-SDTIK | FNV--QSRK | YFSKQ---- |
| hAop1 | ----- | ----- | ----- | ----- |
| hAop166 | ----- | ----- | ----- | ----- |
| Consensus | ----- | ----- | ----- | ----- |





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☐ 1: GI "6166493" [GenPept] thioredoxin peroxidase PMP2... BLink, PubMed, Related Sequences, Nuc

LOCUS AF197952_1 214 aa PRI 29-FEB-2000
 DEFINITION thioredoxin peroxidase PMP20 [Homo sapiens].
 ACCESSION AAF04856
 PID g6166493
 VERSION AAF04856.1 GI:6166493
 DBSOURCE locus AF197952 accession AF197952.1
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 214)
 AUTHORS Zhou,Y., Kok,K.H., Chun,A.C., Wong,C.M., Wu,H.W., Lin,M.C.,
 Fung,P.C., Kung,H. and Jin,D.Y.
 TITLE Mouse peroxiredoxin V is a thioredoxin peroxidase that inhibits
 p53-induced apoptosis
 JOURNAL Biochem. Biophys. Res. Commun. 268 (3), 921-927 (2000)
 MEDLINE 20145535
 REFERENCE 2 (residues 1 to 214)
 AUTHORS Jin,D.-Y.
 TITLE Direct Submission
 JOURNAL Submitted (23-OCT-1999) Institute of Molecular Biology, The
 University of Hong Kong, 8 Sassoon Road, Hong Kong
 COMMENT Method: conceptual translation.
 FEATURES Location/Qualifiers
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 121 qvvaclsynd afvtgewgra tkaegkvrl1 adptgafgke tdlllddsvl sifgnrrlkr
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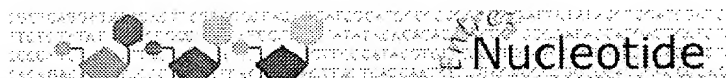


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☐ 1: GI "6782048" [GenPept] unnamed protein product [Homo sapiens] BLink, Related Sequences, Nucleotide, Ta

LOCUS CAB70589 162 aa PRI 20-SEP-2000
 DEFINITION unnamed protein product [Homo sapiens].
 ACCESSION CAB70589
 PID g6782048
 VERSION CAB70589.1 GI:6782048
 DBSOURCE embl locus A99097, accession A99097.1
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 162)
 AUTHORS Falmagne,P., Wattiez,R., Bernard,A., Hermans,C. and Knoops,B.
 TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding
 said polypeptide and their uses in the diagnosis and/or the
 treatment of lung injuries and diseases, and of oxidative
 stress-related disorders
 JOURNAL Patent: WO 9909054-A 25-FEB-1999;
 UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;
 BERNARD ALFRED (BE) ; HERMANS CEDRIC (BE) ; KNOOPS BERNARD (BE) ;
 UNIV LOUVAIN (BE)
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☐ 1: GI "6782047" [GenBank] Sequence 1 from Patent WO99... Protein, Taxonomy, LinkOut

LOCUS A99097 805 bp DNA PAT 20-SEP-2000
DEFINITION Sequence 1 from Patent WO9909054.
ACCESSION A99097
VERSION A99097.1 GI:6782047
KEYWORDS .
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 805)
AUTHORS Falmagne, P., Wattiez, R., Bernard, A., Hermans, C. and Knoop, B.
TITLE Peroxisome-associated polypeptide, nucleotide sequence encoding
said polypeptide and their uses in the diagnosis and/or the
treatment of lung injuries and diseases, and of oxidative
stress-related disorders
JOURNAL Patent: WO 9909054-A 1 25-FEB-1999;
UNIV MONS HAINAUT (BE) ; FALMAGNE PAUL (BE) ; WATTIEZ RUDDY (BE) ;
BERNARD ALFRED (BE) ; HERMANS CEDRIC (BE) ; KNOOPS BERNARD (BE) ;
UNIV LOUVAIN (BE)
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BASE COUNT 163 a 200 c 276 g 166 t
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